

Title (en)  
DEVICE FOR MANUFACTURING LAMINATED IRON CORE AND METHOD FOR MANUFACTURING LAMINATED IRON CORE

Title (de)  
VORRICHTUNG ZUR HERSTELLUNG EINES LAMINIERTEN EISENKERNS UND VERFAHREN ZUR HERSTELLUNG EINES LAMINIERTEN EISENKERNS

Title (fr)  
DISPOSITIF ET PROCÉDÉ DE FABRICATION D'UN NOYAU DE FER STRATIFIÉ

Publication  
**EP 3789133 A1 20210310 (EN)**

Application  
**EP 20192197 A 20200821**

Priority  
JP 2019160461 A 20190903

Abstract (en)  
A device for manufacturing a laminated iron core includes: a punch unit configured to form protrusions, and including N number of punches as a set, the N being a natural number larger than M; and N number of auxiliary punches. The N number of auxiliary punches are configured such that L number of auxiliary punches selected from the N number of auxiliary punches performs a nullification processing on a metal sheet, the nullification processing being configured to nullify a processing with the L number of punches among the N number of punches, the L being the natural number that is obtained by subtracting the M from the N. According to the above configurations, for example, since a processing position with the plurality of punches is limited in one position, a positional accuracy of protrusions formed in punched members with the plurality of punches is improved.

IPC 8 full level  
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CPC (source: CN EP US)  
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Citation (applicant)  
JP 2018007530 A 20180111 - TOYOTA MOTOR CORP

Citation (search report)  
• [X] US 2011024489 A1 20110203 - SAKAKIBARA MASAMI [JP], et al  
• [A] JP 2019054727 A 20190404 - MITSUI HIGH TEC, et al

Cited by  
EP4124399A1; IT202200017547A1; WO2024042401A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3789133 A1 20210310**; CN 112439822 A 20210305; CN 112439822 B 20230324; JP 2021037528 A 20210311; JP 7288825 B2 20230608; US 11524327 B2 20221213; US 2021060635 A1 20210304

DOCDB simple family (application)  
**EP 20192197 A 20200821**; CN 202010915684 A 20200903; JP 2019160461 A 20190903; US 202016997322 A 20200819